

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P766438

Luminaire Tested: LD6D45BD010-EU6DR3040509050-6LBDP1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P766438
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD6D45BD010-EU6DR3040509050-6LBDP1H
Description: 6 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5101.5 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

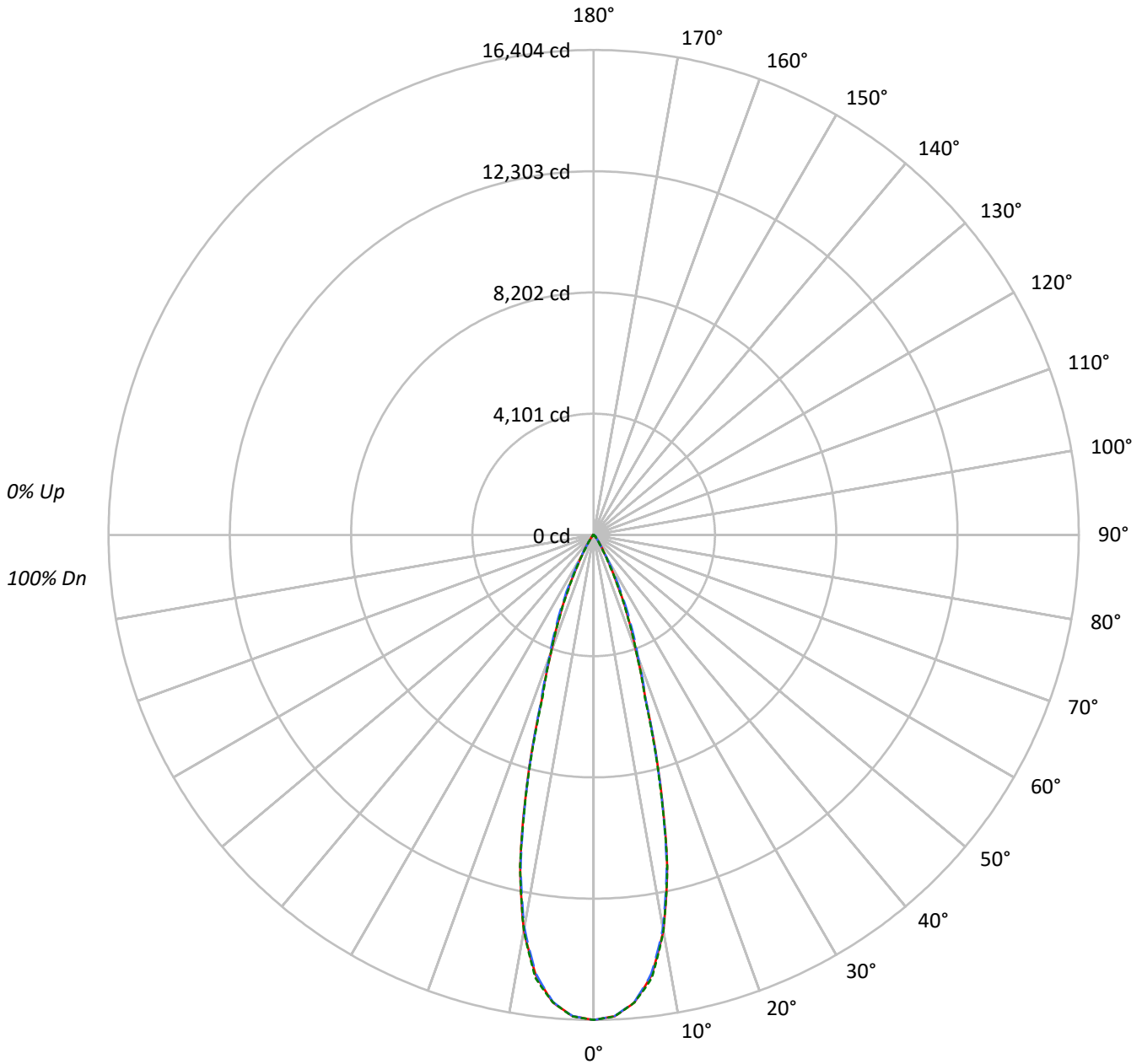
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P766438
CATALOG NUMBER: LD6D45BD010-EU6DR3040509050-6LBDP1H

Luminous Intensity Polar Plot





TEST NUMBER: P766438

CATALOG NUMBER: LD6D45BD010-EU6DR3040509050-6LBDP1H

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1255603	1255603	1255603
5°	1219561	1218139	1219622
10°	1056326	1048873	1056070
15°	689197	685496	682049
20°	342709	355563	342245
25°	172629	194672	169098
30°	69117	75313	60216
35°	32060	30705	25734
40°	13839	15368	13040
45°	9764	12113	9851
50°	3358	8824	3549
55°	1935	3657	2042
60°	1362	1607	1362
65°	869	869	869
70°	537	358	537
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12113 cd/sqm



TEST NUMBER: P766438

CATALOG NUMBER: LD6D45BD010-EU6DR3040509050-6LBDP1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1442.5	28.3
10°-20°	2323.1	45.5
20°-30°	1003.9	19.7
30°-40°	228.8	4.5
40°-50°	78.6	1.5
50°-60°	19.2	0.4
60°-70°	5.0	0.1
70°-80°	0.5	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4769.5	93.5
0°-40°	4998.3	98.0
0°-60°	5096.0	99.9
0°-90°	5101.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5101.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16404	16404	16404	16404	16404	
5°	15872	15857	15854	15887	15873	1444
15°	8697	8592	8650	8622	8607	2329
25°	2044	2121	2305	2067	2002	978
35°	343	350	329	326	275	233
45°	90	112	112	112	91	64
55°	14	15	27	16	15	14
65°	5	5	5	5	5	5
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P766438

CATALOG NUMBER: LD6D45BD010-EU6DR3040509050-6LBDP1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16403.8	16403.8	16403.8	16403.8	16403.8
2.5°	16295.1	16283.8	16290.3	16298.3	16301.5
5°	15872.3	15857.0	15853.8	15886.8	15873.1
7.5°	15019.4	14997.6	14964.6	15039.5	15109.6
10°	13590.7	13566.5	13494.8	13530.3	13587.4
12.5°	11481.4	11403.3	11401.7	11514.4	11499.1
15°	8697.2	8592.5	8650.5	8622.3	8607.0
17.5°	5848.6	5808.3	5885.7	5862.3	5761.6
20°	4207.3	4217.7	4365.1	4291.0	4201.6
22.5°	3070.1	3107.9	3282.7	3091.8	3021.8
25°	2044.0	2121.4	2305.0	2067.4	2002.2
27.5°	1257.2	1292.6	1478.7	1241.1	1205.6
30°	782.0	764.3	852.1	731.3	681.3
32.5°	513.0	490.5	518.7	465.5	425.2
35°	343.1	350.3	328.6	326.2	275.4
37.5°	214.2	246.4	217.5	231.9	177.2
40°	138.5	178.8	153.8	169.9	130.5
42.5°	113.6	137.7	126.4	134.5	116.0
45°	90.2	111.9	111.9	111.9	91.0
47.5°	49.9	74.9	95.8	76.5	53.2
50°	28.2	37.9	74.1	39.5	29.8
52.5°	19.3	21.7	50.7	22.6	20.1
55°	14.5	15.3	27.4	16.1	15.3
57.5°	11.3	12.1	14.5	12.1	11.3
60°	8.9	8.9	10.5	9.7	8.9
62.5°	6.4	6.4	7.2	6.4	6.4
65°	4.8	4.8	4.8	4.8	4.8
67.5°	2.4	3.2	3.2	3.2	3.2
70°	2.4	1.6	1.6	1.6	2.4
72.5°	1.6	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)